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>DG5S1645: 168627546 - 168627811

GTCTGCAGGCCAGAACTCACCGGTGGGCTACCAGTTTGCAAGTTCGTCTC
TGCTGTTCCCAGTAAAGAGCTAGTTGTACGTTTTGTTTGTTTGTTTGTTT
GTTTGTTTTTGAGCATGGAGCTGAACTGAGCAAAACAGGGGCAGGGAGTC
CTCCTGGTGCAAGGGATGAAGGAAAAGAGACCCCATGCCCAATACTCCTC
TTTACATGCCCTCACCATGACCACATCCAACCCGGGTTGCCCCTCTG
TTTGGCCCATTCCTC

>DG5S87: 167992779 - 167993149

TTCGAGTTGTCCACCTTTCCTACTAAACCAGTGTATCAATGTGCATCT
TACATGTATTGACTGATGTCTTATGTCTCCCTAAAATGTATAAAACCAAA
CTATAGCTTGACTACTCTGGGCACATGTTCTTAGGATCTCCCGGGGCTGT
GGCACTCCTATTTGGCTCAGAATAAATCTCTTCAAATATTTTACAGAGTT
TGA CTCTTCTTGTTGACAACTTCCAGTTCTCTCTCATTCTCTCTCTGTCA
CTCTCTCTCTCTCTCTCTCTCTCTCTCACACACACACACAGACACACA
CACAACACACACATACATAAGCCAACTCAATCATCGTTATATCTGTACCC
TGAGAGGCTAATCCCAGAGG

FIG. 12F

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DG5S87
DG5S91
DG5S1553
SLT_703026
SLT_697143
SLT_696007
SLT_687289
SLT_683623
SLT_680684
SLT_673235
DG5S1043
DG5S92
SLT_661589
SLT_661457
SLT_658204
SLT_657307
SLT_657277
DG5S491
SLT_649164
SLT_636323
DG5S1047
SLT_629874
SLT_621478
SLT_621478
SLT_617406
SLT_616823
SLT_612136
SLT_610323
SLT_610234
SLT_608499
SLT_605050
DG5S9
SLT_589545
SLT_585043
SLT_584969
SLT_581505
SLT_580597
SLT_579597
SLT_579074
SLT_578813
DG5S1049
DG5S1116
SLT_564589
SLT_564530
SLT_556437
SLT_550503
SLT_550582

FIG. 13A

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SLT_533429
SLT_526304
DG5S1051
SLT_504791
DG5S876
DG5S97
rs1982063
rs891958
rs1036205
D5S2052
DG5S1120
rs1432910
DG5S1053
rs2163783
DG5S880
D5S400
SLT_317099
rs2879135
DG5S881
DG5S1122
rs188432
rs295985
rs296008
rs296001
rs295994
rs2668054
D5S2043
rs297835
DG5S1056
rs297818
rs297823
rs297863
SLT_169267
rs297868
DG5S1058
rs172472
rs297898
DG5S1060
D5S2075
DG5S883
SLT_96349
SLT_90256
SLT_89801
DG5S1645
SLT_8967
SLT_8898
SLT_8778

FIG. 13B

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SLT_278
SLT_rs1895203
SLT_rs918408
SLT_rs1019461
SLT_rs981957
DG5S38
SLT_rs1422021
DG5S37
SLT_rs731398
SLT_rs2112332
SG05S458
SG05S459

FIG. 13C

MAPGWAGVGAAVRARLALALASVLSGPPAVACPTKCTCSAASVD
CHGLGLRAVPRGIPRNAERLDLDRNNITRITKMDFAGLKNLRVLHLED
NQVSVIERGAFQDLKQLERLRLNKNKLQVLPPELLFQSTPKLTRLDLSE
NQIQGIPRKAFRGITDVKNLQLDNNHISCIEDGAFRALRDLEILTLNNN
NISRLVTSFNHMPKIRTLRLHSNHL YCDCHLAWLSDWLRQRRTVGQF
TLCMAPVHLRGFNVADVQKKEYVCPAPHSEPPSCNANSISCPSPCTCS
NNIVDCRGKGLMEIPANLPEGIVEIRLEQNSIKAIPAGAFTQYKKLKRID
ISKNQISDIAPDAFQGLKSLTSLVLYGNKITEIAKGLFDGLVSLQLLLLN
ANKINCLRVNTFQDLQNLNLLSLYDNKLQTISKGLFAPLQSIQTLHLAQ
NPFVCDCHLKWLDYLDQDNPIETSGARCSSPRRLANKRISQIKSKKFR
SGSEDYRSRFSSECFMDLVCPEKCRCEGTIVDCSNQKLVRIPSHLPEYV
TDLRLNDNEVSVLEATGIFKKLPNLRKINLSNNKIKEVREGAFDGAAS
VQELMLTGNQLETVHGRVFRGLSGLKTLMLRSNLIGCVSNDTFAGLSS
VRLLSLYDNRITTTITPGAFTTSLVSLSTINLLSNPFNCNCHLAWLGKWL
KRRIVSGNPRCQKPFFLKEIPQDVAIQDFTCDGNEESSCQLSPRCPEQC
TCMETVVRC SNKGLRALPRGMPKDVTELYLEGNHLTAVPRELSALRH
LTLIDLSNNSISMLTNYTFSNMSHLSTLILSYNRLRCIPVHAFNGLRSLR
VLT LHGNDISSVPEGSFNDLTSLSHLALGTNPLHCD CSLRWLSEWVKA
GYKEPGIARCSSPEPMADRLLLTTPTHR FQCKGPVDINIVAKCNACLSS
PCKNNGTCTQDPVELYRCACPYSYKGKDCTVPINTCIQNPCQHGGTCH
LSDSHKDGFS CSCPLGFEGQRCEINPDDCEDNDCENNATCVDGINNYV
CICPPNYTGELCDEVIDHCVPELNLQHEAKCIPLDKGFSCECVPGYSG
KLCETDNDDCVAHKCRHGAQCVD TINGYTCTCPQGFS GPFC EHPPPM
VLLQTSPCDQYECQNGAQCIVVQQEPTCRCP PGFAGPRCEKLITVNFV
GKDSYVELASAKVRPQANISLQVATDKDNGILLYKGDNDPLALELYQ
GHVRLVYDSLSSPPTTVYSVETVNDGQFHSVELVTLNQTLNLVVDKG
TPKSLGKLQKQPAVGINSPLYLGGIPTSTGLSALRQGTDRPLGGFHGCI
HEVRINNELQDFKALPPQSLGVSPGCKSCTVCKHGLCRSVEKDSVVCE

FIG. 14A

CRPGWTGPLCDQEARDPCLGHRCHHGKCVATGTSYMCKCAEGYGGD
LCDNKND SANACSAFKCHHGQCHISDQGEPLYCLCQPGFSGEHCQQEN
PCLGQVVREVIRRQKGYASCATASKVPIMECRGGCGPQCCQPTRSKRR
KYVFQCTDGSSFVEEVERHLECGCLACS

FIG. 14B